

ASC3108C

10KHz – 30 MHz Push-Pull Amplifier

Features: (typical values)

- Low Noise Figure 4.5 dB.
- P1dB 28 dBm.
- Gain 13 dB.
- No external components required

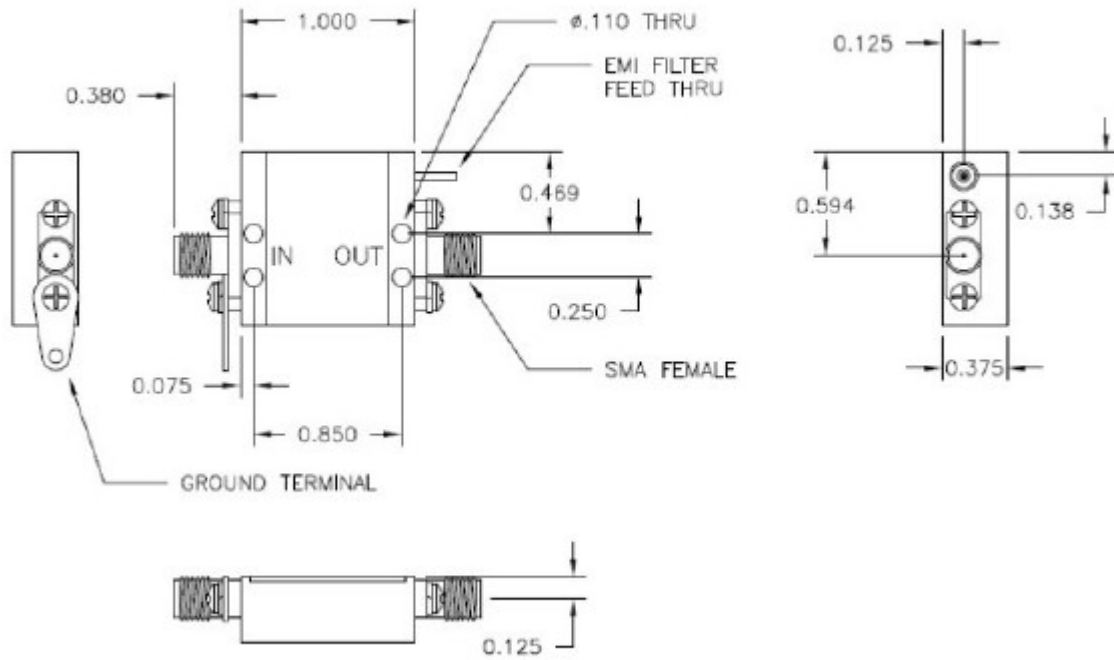
Maximum Ratings

Operating Temperature -20°C to +85°C
 Storage Temperature -40°C to +125°C
 DC Voltage +13.0volts
 RF Input Power 25 dBm.
 Case Temperature +100°C

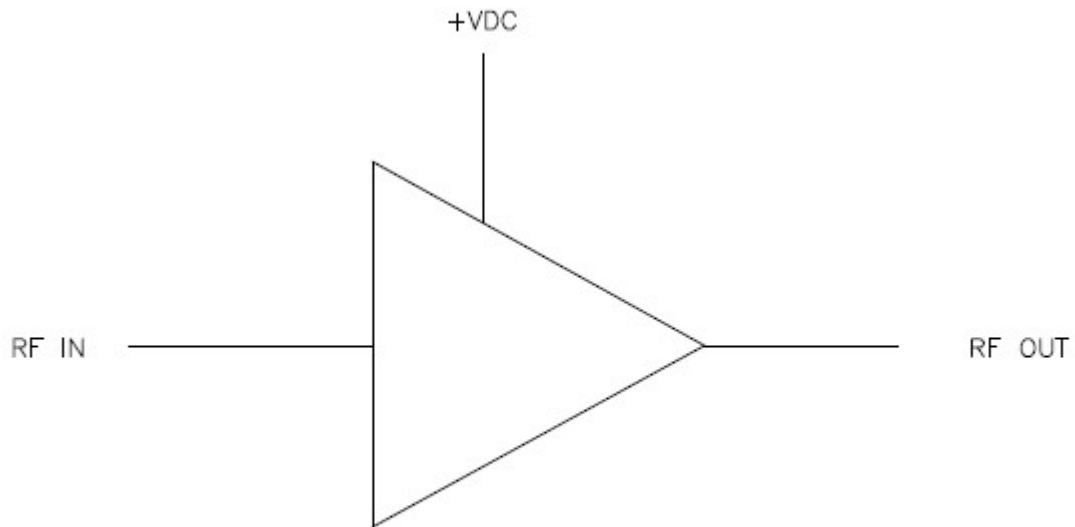
Specifications (Referenced to 50 ohms)

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		10 KHz	30 MHz	
Gain	13	12		dB.
Gain Flatness p-p	±0.3		±0.5	dB.
Pout @ P1dB	+28	+26		dBm.
Noise Figure	4.5		5.0	dB.
IP3 @ 12dbm per tone	42	40		dBm
IP2 @ 12dbm per tone	75	70		dBm
VSWR In/Out	1.5:1		1.7:1	Ratio
Impedance, Input/Output	50 Ohm			
Supply Required	+12/200		+12/250	v/mA.

OUTLINE



FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED